



RHODES UNIVERSITY, MAKHANDA, SOUTH AFRICA

STUDENT INFORMATION



MS KAMAGELO HLABANGWANE (DOCTORAL STUDENT)

STUDENT NO: 18H0369

SUPERVISOR: DISTINGUISHED PROFESSOR TEBELLO NYOKONG

CONTACT DETAILS:

Rhodes University
Institute for Nanotechnology Innovation
P O Box 94
Makhanda (Grahamstown) 6140, South Africa
Email: kamogelo.hlabangwane@gmail.com

EDUCATION DETAILS:

PhD (Chemistry) currently – Rhodes University
MSc – with distinction (Chemistry) 2025 – Rhodes University
BSc Honours (Chemistry) 2021 – Rhodes University
BSc (Chemistry & Biochemistry) 2020 – Rhodes University

RESEARCH TITLE/PROJECT:

Exploration of novel materials in antimicrobial photodynamic therapy for removal of biological and chemical pollutants in water

PUBLICATIONS:

1. Kamogelo Hlabangwane, Refilwe Matshitse, Muthumuni Managa, Tebello Nyokong
The application of Sn(IV)Cl₂ and In(III)Cl porphyrin-dyed TiO₂ nanofibers in photodynamic antimicrobial chemotherapy for bacterial inactivation in water

Photodiagnosis and Photodynamic Therapy 44 (2023) 103795 (1-9)

DOI: 10.1016/j.pdpdt.2023.103795

<https://doi.org/10.1016/j.pdpdt.2023.103795>

CONFERENCES/WORKSHOPS:

11th Nanosciences Young Researchers' Symposium (NYRS – 2023)

Nelson Mandela University, 7 Sept 2023

Poster Presentation

K Hlabangwane, R Matshitse, M Managa, T Nyokong

The application of TiO₂ nanofibers as nanocarriers in photodynamic antimicrobial chemotherapy for bacterial inactivation in water.

(1st place – MSc Poster Presentation)